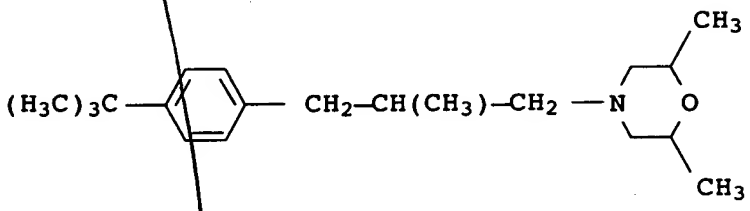
09/868515
JC18 Rec'd PCT/PTO 18 JUN 2001

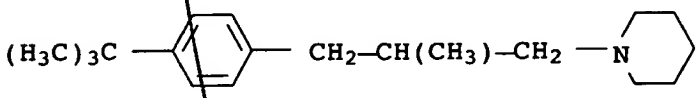
We claim:

1. A fungicidal mixture, comprising as active components

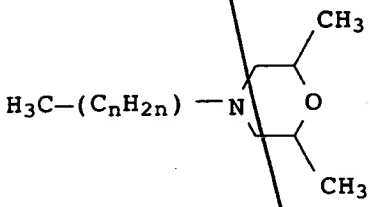
a) a morpholine or piperidine derivative I selected from the group of the compounds Ia, Ib, Ic and Id



(Ia)

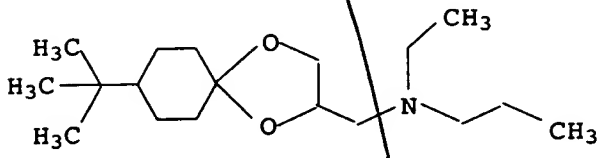


(Ib)



(Ic)

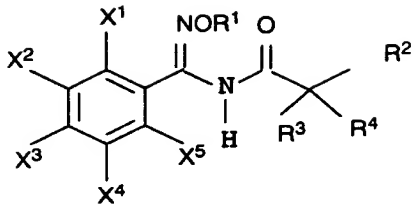
[n= 10,11,12 (60 - 70%) or 13]



Id

and

b) compounds of the formula II



(II)

where the substituents X^1 to X^5 and R^1 to R^4 are as defined below:

X^1 is C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy or halogen;

X^2 to X^5 are, independently of one another, hydrogen, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy,

R^1 is C_1-C_4-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_4-alkyl-C_3-C_7-cycloalkyl, where these radicals may carry substituents selected from the group consisting of halogen, cyano and C_1-C_4-alkoxy,

R^2 is a phenyl radical or a 5- or 6-membered saturated or unsaturated heterocyclyl radical having at least one heteroatom selected from the group consisting of N, O and S, where the cyclic radicals may have one to three substituents selected from the group consisting of halogen, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, C_1-C_4-alkoxy-C_2-C_4-alkenyl, C_1-C_4-alkoxy-C_2-C_4-alkynyl,

R^3 and R^4 are, independently of one another, hydrogen, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_4-alkylthio, N-C_1-C_4-alkylamino, C_1-C_4-haloalkyl or C_1-C_4-haloalkoxy

in a synergistically effective amount.

2. A fungicidal mixture as claimed in claim 1, where in the compounds II, R^1 is C_1-C_4-alkyl or C_1-C_4-alkylene-C_3-C_7-cycloalkyl.

3. A fungicidal mixture as claimed in claim 1, where in the compounds II, R^2 is phenyl, thienyl, pyrazolyl, pyrrolyl, imidazolyl, thiazolyl, furyl, pyridazinyl or pyrimidinyl, and

these radicals may be substituted by halogen, C_1-C_4-alkoxy or C_1-C_4-alkyl.

4. A fungicidal mixture as claimed in claim 1, where in the compounds II, R^3 or R^4 are hydrogen, fluorine, chlorine, methyl, ethyl, methoxy, thiomethyl or N-methyamino [sic].

5. A fungicidal mixture as claimed in claim 1, where in the compounds II, X^1 is halo-C_1-C_6-alkyl, halo-C_1-C_6-alkoxy or halogen.

6. A fungicidal mixture as claimed in claim 1, where in the compounds II, X^2 or X^3 are hydrogen or halogen.

7. A fungicidal mixture as claimed in claim 1, where in the compounds II, X^4 is hydrogen, chlorine, fluorine, methoxy, ethoxy, trifluoromethyl or trifluoromethoxy.

8. A fungicidal mixture as claimed in claim 1, where in the compounds II, X^5 is hydrogen, chlorine, fluorine, methoxy, ethoxy, trifluoromethyl or trifluoromethoxy.

9. A fungicidal mixture as claimed in any one of the preceding claims, which is conditioned in two parts, where one part comprises one or more compounds I in a solid or liquid carrier and the other part comprises one or more compounds of the formula II in a solid or liquid carrier.

10. A method for controlling harmful fungi, which comprises treating the fungi, their habitat or the materials, plants, seeds, soils, areas or spaces to be protected against fungal attack with a fungicidal mixture as claimed in any of claims 1 to 9, where the compounds I and one or more compounds of the formulae [sic] II can be applied simultaneously, that is either together or separately, or successively.